

WHAT IS CLAIMED IS:

1. A magnetic recording medium, comprising:
underlayer laminated on a substrate and including
a Cr-based non-magnetic material laminated on a
substrate; and
magnetic layer laminated on said underlayer,
allowing deposition of an alloy of at least a kind of
non-magnetic material and Co and also existence of Cr
only at the area near the crystal grain boundary of said
alloy.
2. A magnetic recording medium, comprising:
underlayer laminated on a substrate and including
a Cr-based non-magnetic material; and
magnetic layer consisting of CoCr-based alloy
including Cr in the concentration of 5at% or less.
3. A magnetic recording medium according to claim 1,
wherein said magnetic layer is formed of a Co alloy
structured with two elements.
4. A method of manufacturing a magnetic recording
medium comprising the steps of:
laminating the underlayer consisting of the
Cr-based non-magnetic material on a substrate; and
laminating, on a substrate, the magnetic layer
consisting of an alloy of at least a kind of non-magnetic
material different from Cr and Co.
5. A method of manufacturing a magnetic recording
medium according to claim 4, wherein the post-annealing

is conducted after said magnetic layer and underlayer are laminated.

6. A method of manufacturing a magnetic recording medium according to claim 4, wherein said magnetic layer is laminated with the sputtering method under the condition of the bias voltage is set to 0V.

7. A magnetic disc drive comprising:

a magnetic recording medium formed by laminating an underlayer including a Cr-based non-magnetic material is laminated on a substrate, depositing an alloy of at least a kind of non-magnetic material and Co and also laminating a magnetic layer allowing existence of Cr only at the area near the crystal grains of said alloy;

a spindle motor for rotating said magnetic recording medium;

a magnetic head for writing or reading data to or from said magnetic recording medium; and

an actuator for moving said magnetic head in the radius direction of said magnetic recording medium.